

Gigabit Ethernet Switches for Airport Security Monitoring

2009-05-06

Location / Country : USA

Product Solutions:

[EDS-518A Series](#)

16+2G-port Gigabit managed Ethernet switches

Introduction

Project Introduction

Video surveillance technology plays an important role in improving security at airports in the face of various dangers ranging from common vandalism to terrorist attacks. One of the top international gateways in the United States selected Moxa's EDS-518A industrial Gigabit Ethernet switches to connect the video servers in their surveillance system. In order to provide passenger terminals with monitoring capabilities, the switches were arranged in a U-shaped pattern around a central perimeter containing parking lots, hotels, a power plant, and other airport facilities.

System Requirements

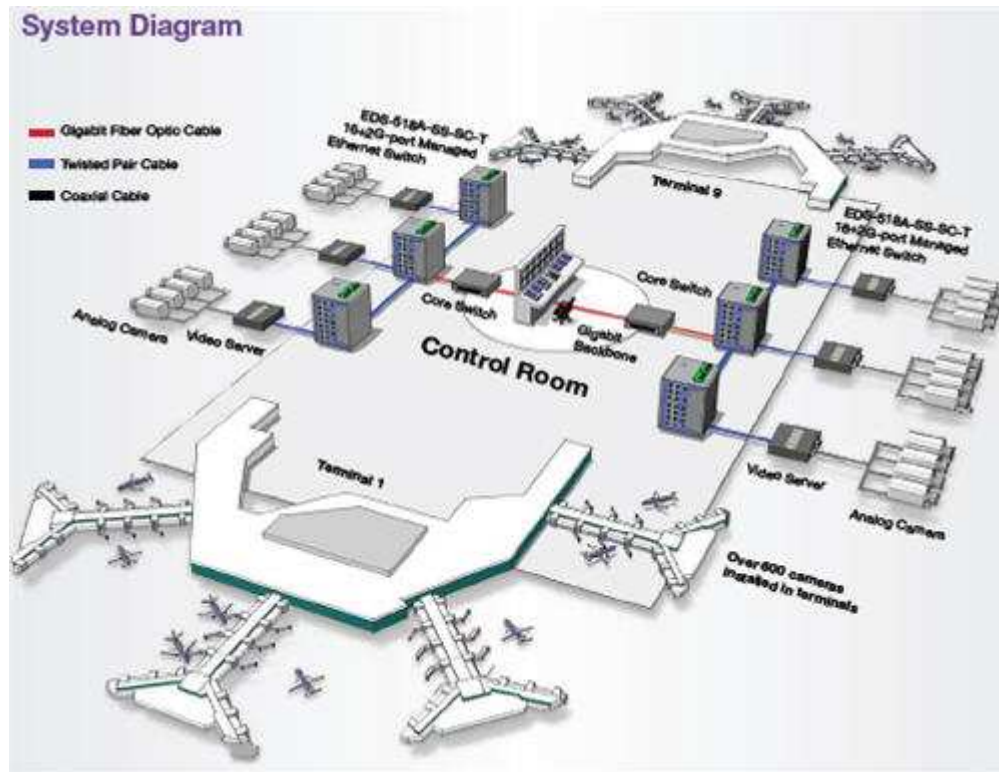
- Ethernet network with high-bandwidth and long-haul transmission capability for video streaming from terminals to the airport's remote operation center.
- Ethernet switches with IGMP snooping support for multicast filtering to reduce network traffic.
- Reliable performance under extreme temperatures.

Moxa Solution

Modern airports rely on industrial Ethernet in developing Intelligent Transportation Systems to ensure convenience and security for passengers and airport facilities. Running the most modern, efficient, and spacious international airports in the world, our customer has a reliable video surveillance system for their security monitoring. Over 600 analog cameras were installed to monitor airport terminals, parking lots, train stations, fuel depots, busy intersections, tracks, restricted areas, etc.

To enhance efficiency for its remote security monitoring system, the customer decided to deploy Moxa's EDS-518A-SS-SC-T Gigabit managed Ethernet switches to connect the system's video servers to analog cameras. The EDS-518A-SS-SC-T Gigabit Ethernet switches feature high port density and were able to connect several video servers. They also have a high bandwidth capability to support a Gigabit backbone for massive video and data transmissions, and support IGMP snooping for filtering multicast traffic to significantly reduce the amount of traffic on bandwidth intensive networks as well. In addition, the EDS-

518A-SS-SC-T offered long distance transmission to the operation center via single mode fiber optics that can work reliably under wide temperature extremes from -40 to 75°C, accommodating the extreme weather conditions the airport encounters during winter and summer months.



Why Moxa

- Moxa's EDS-518A series Ethernet switches support IGMP snooping for filtering multicast traffic and efficiently reduced the amount of traffic for the bandwidth intensive video surveillance network.
- The EDS-518A-SS-SC-T comes equipped with single mode fiber optics, making it easy to transmit data over long distances to a remote operation center.
- The rugged design of Moxa's industrial Ethernet switch can operate reliably under extreme temperature variations.
- The high bandwidth capability of the EDS-518A Gigabit Ethernet switch is the ideal solution for uplink to a Gigabit backbone and downlink to several video servers.

Product

EDS-518A-SS-SC-T

- 2 Gigabit plus 16 Fast Ethernet ports for copper and fiber
- Supports QoS, IGMP snooping/GMRP, VLAN, LACP, RMON
- Long-haul transmission capability of 40 or 80 km
- -40 to 75°C operating temperature range